|   |            |          |              |          |        |          |                 |           |                          |          |              |          |         | 10/631,103 |                    |              |              |     |          |                |            |                 | HYNES ET AL. |         |  |          |                 |         |     |  |
|---|------------|----------|--------------|----------|--------|----------|-----------------|-----------|--------------------------|----------|--------------|----------|---------|------------|--------------------|--------------|--------------|-----|----------|----------------|------------|-----------------|--------------|---------|--|----------|-----------------|---------|-----|--|
|   |            |          |              |          |        |          |                 |           |                          |          |              |          |         | E          | Examiner           |              |              |     |          |                |            |                 | Art Unit     |         |  |          |                 |         |     |  |
|   |            |          |              |          |        |          |                 |           |                          |          |              |          |         |            | Patrick F. Brinson |              |              |     |          |                |            |                 | 3754         |         |  |          |                 |         |     |  |
|   |            |          |              | _        |        |          | 1               | ٦         | Т                        |          | <b>h</b> = a | <u></u>  |         | 1)         | $\neg$             | Г            | Т            |     |          |                |            | П               |              |         |  |          |                 |         |     |  |
|   | √ Re       |          |              |          |        | lejected |                 |           | (Through numer Cancelled |          |              | rai)     | ╝       | ŀ          | N Non-Elec         |              |              | ed  |          | A              | Appeal     |                 |              |         |  |          |                 |         |     |  |
|   |            |          | = Allowed    |          |        |          | +               |           | Restricted               |          |              |          |         |            | ı                  | Interference |              |     | 0        | Objected       |            |                 |              |         |  |          |                 |         |     |  |
| 1 | Cla        | eim.     | Date         |          |        |          |                 |           |                          | 7        | Claim        |          |         |            | Date               |              |              | 9   |          | Claim          |            |                 | Date         |         |  |          | 1               |         |     |  |
|   |            |          | V            | 8        |        |          | ĬП              | П         | Т                        | 7        |              | $\Gamma$ |         | 1          | ΠĬ                 | Ī            | T            |     |          |                |            | П               |              |         |  | П        | П               | T       |     |  |
|   | Final      | Original | 9            | 7        |        |          |                 |           |                          |          | Final        | Original |         |            |                    |              |              |     |          | Final          | Original   |                 |              |         |  |          |                 |         |     |  |
|   |            | 1        |              | 7        | +      | ╀        | Н               | ┥         |                          | $\dashv$ |              | 51       | +       | ╫          | ╁╌┼                | $\dashv$     | +            | ++- |          | ┯╢             | 101        | $\vdash$        | +            | +-      | ╆  | Н        | -+              | +-      | 1   |  |
|   |            | 2        | Y.           | 1        |        |          |                 | $\exists$ |                          | ╛        |              | 52       | 土       |            |                    | 士            | $\pm$        |     |          |                | 102        |                 | 上            |         |  |          |                 |         |     |  |
|   |            | 3        | Ш            | $\prod$  | $\bot$ | I        | П               | _         | $\perp$                  | _        |              | 53       |         | _          |                    | $\bot$       | 4            |     | [        |                | 103        |                 | 4            | -       |  |          | Щ               | 1       | }   |  |
|   |            | 5        | Н            | ++       | +      | +-       | $\vdash$        | $\dashv$  | +                        | $\dashv$ |              | 54<br>55 | +       | ╁          | ╌┼                 | $\dashv$     | +            |     | <b> </b> |                | 104<br>105 | Н               | +            | +       | ╁  | $\vdash$ | $\vdash$        | ╁       | ł   |  |
|   |            | 6        | Н            | H        | +      | ╁        | $\vdash$        | ┪         | +                        | ┨        | $\vdash$     | 56       | ╅       | ╈          | $\vdash$           | +            | +            |     | -        | -              | 106        | $\vdash$        | +            | ┿       | ┼~   | $\vdash$ | +               | +       |     |  |
|   |            | 7        |              | 11       |        |          |                 |           |                          |          |              | 57       |         |            |                    | $\Box$       |              |     |          |                | 107        |                 |              |         |  |          |                 | 工       |     |  |
|   |            | 8        |              | П        |        | L        | П               | _         |                          | _        |              | 58       | 4       | <u> </u>   |                    | _            | 1            |     |          |                | 108        | Ц               | _            | -       | <del> </del>                                     |          | $\perp$         | 4       |     |  |
|   |            | 9        | Н            | +        | +      | +        | Н               | $\dashv$  | +                        | $\dashv$ |              | 59<br>60 | +-      | +-         | ⊢                  | +            | ╁            | +   |          |                | 109        | -               |              | ╅╴      | ╁  | Н        | $\vdash$        | ╁       | 1   |  |
|   |            | 11       | Н            | +        | +      | ╁        | 1               | ┪         | $\dashv$                 | -        |              | 61       | +       | +-         | H                  | 十            | +            |     |          |                | 111        | -               | +            | ╁       | +-   | Н        | $\vdash$        | +       | 1   |  |
|   |            | 12       |              | $\perp$  | 士      |          |                 |           | 工                        | ]        |              | 62       |         |            |                    |              | 1            |     |          |                | 112        |                 |              |         |  |          |                 |         | ]   |  |
|   |            | 13       |              | 1        |        | Ļ        | Ц               | 4         | _                        | _        |              | 63       | 4       | ╁.         | $\sqcup$           | +            | 4            | ++  |          |                | 113        | Ш               | +            | +       |  | Н        | 1               | +       |     |  |
|   | <u> </u>   | 14<br>15 | 7            | 分        | +      | +        | $\vdash$        | -         | -                        | $\dashv$ | <u> </u>     | 64<br>65 |         | +          | $\vdash$           | +            | +            |     | ╽┟       |                | 114<br>115 | $\vdash$        | +            | ╁       | $\vdash$   | Н        | $\dashv$        | ┿       | 1   |  |
|   |            | 16       | +            | 11       | +      | +-       | $\vdash$        | ┪         | $\dashv$                 | $\dashv$ |              | 66       | +       | +          | $\vdash$           | +            | +            | ++  | 1 1      | $\neg$         | 116        | $\vdash$        | +            | +       | Н  | Н        | $\vdash$        | +       |     |  |
|   |            | 17       |              | $\Box$   |        |          |                 |           |                          |          |              | 67       | 上       | 上          | П                  |              |              |     |          |                | 117        |                 |              |         |  |          |                 |         |     |  |
|   |            | 18       | لنا          | 7        |        | L        | Ц               | 4         | 4                        | 4        |              | 68       | $\bot$  | $\bot$     | $\sqcup$           | 4            | 4            |     | -        |                | 118        | Н               | +            | +       | $\vdash$   | Ш        | $\vdash \vdash$ | +       |     |  |
|   |            | 19<br>20 | 7            | 시        | +      | ╀        | $\vdash$        | $\dashv$  | +                        | $\dashv$ |              | 69<br>70 | +       | ╁╴         | ╌                  | +            | +            |     | <b> </b> |                | 119<br>120 | $\vdash$        | +            | +       | ┼  | -        | +               | +-      |     |  |
|   | }          | 21       | +            | 1        | +      | +        | H               | -         | +                        | -        | <b>-</b>     | 71       | +       | 十          | $\vdash$           | +            | +            | +   | h        | _              | 121        | H               | +            | +       | <del>                                     </del> | П        | $\vdash$        | +       | 1   |  |
|   |            | 22       |              | $\perp$  |        |          |                 |           |                          | ]        |              | 72       |         |            |                    |              | コ            |     |          |                | 122        | П               | $\perp$      | $\perp$ |  |          | $\Box$          |         |     |  |
|   |            | 23       | Ц            | 1        | _      | 1        | Н               | 4         | 4                        | 4        | <u> </u>     | 73       | 4       | ╀-         | $\vdash$           | 4            | 4            |     | <b> </b> |                | 123        | $\vdash \vdash$ | +            | +       | <b>├</b> ─                                       | -        | $\vdash$        | -       |     |  |
|   |            | 24<br>25 | 7            | 天        | -      | ╀        | $\vdash$        | -         | +                        | -        | <u> </u>     | 74<br>75 | ╁       | ╁╌         | $\vdash$           | +            | +            | +   | l        | <del>-  </del> | 124<br>125 | Н               | +            | +-      | -  | $\vdash$ | +               | +-      |     |  |
|   | <b></b> -  | 26       | ¥.           | 1        | +      | +-       | $\vdash$        | +         | _                        | ┥        |              | 76       | +       | 十          | П                  | $\top$       | $\forall$    | 11- |          |                | 126        | -               | +            | +       | T  |          | $\top$          | $\top$  |     |  |
|   |            | 27       | 7            | प        |        |          |                 |           |                          |          |              | 77       |         |            |                    |              | ╗            |     | ן [      |                | 127        | П               | $\Box$       | I       |  |          | $\Box$          | $\top$  | ]   |  |
|   |            | 28       |              | 1        | _      | $\perp$  | П               | $\dashv$  |                          | _        |              | 78       | 4       | ╄          | $\sqcup$           | 4            | 4            | +   |          |                | 128<br>129 | ⊢⊦              | +            | +       | ┼  | Н        | $\vdash$        | ╁       | -   |  |
|   | <b> </b> - | 30       | $\mathbb{H}$ | H        | +      | ╁        | Н               | $\dashv$  | +                        | $\dashv$ |              | 79<br>80 | +       | ╁╌         | ╁┼                 | +            | ┽            |     | l        |                | 130        | Н               | +            | +       | ╁  | Н        | $\vdash$        | +       |     |  |
|   |            | 31       |              | 늴        | +      | +        | Н               | 7         | +                        | 1        |              | 81       | +       | +          | H                  | 十            | ✝            |     | l t      |                | 131        |                 | $\top$       | $\top$  |  |          |                 |         |     |  |
|   |            | 32       |              | I        |        |          |                 | $\Box$    |                          |          |              | 82       |         |            |                    | $\Box$       | $\Box$       |     |          |                | 132        | П               | $\perp$      | $\perp$ |  |          |                 | $\perp$ |     |  |
|   | <u> </u>   | 33       | _            |          | +      | ╄        | $\vdash$        | -         |                          | -        |              | 83       | +       | ┼          | $\vdash$           | +            | +            | +   | <b>!</b> |                | 133<br>134 | H               | +            | +-      | ╂  | Н        | H               | +-      |     |  |
|   |            | 34<br>35 | -            |          | ╌      | ┿        | ╂═┼             | $\dashv$  | -+                       | -        |              | 84       |         | ╁          | H                  | $\dashv$     | ┪            |     | ┨╏       |                | 135        | $\vdash$        |              | ╁       | ╁  | $\vdash$ | $\vdash$        | +-      | 1   |  |
|   |            | 36       |              |          | $\top$ | +-       | H               | 1         | 十                        | ┪        |              | 86       | 1       | T          | П                  |              |              |     | וו       |                | 136        |                 |              |         |  |          |                 |         |     |  |
|   |            | 37       |              |          |        |          | П               | $\Box$    | I                        | ]        |              | 87       | $\perp$ | $\perp$    | Ш                  | 4            | $\downarrow$ |     |          |                | 137        | Ц               | 1            | 4       | _  |          |                 | 4       |     |  |
|   | <u> </u>   | 38<br>39 | _            | $\dashv$ | -      | +-       |                 | 4         | -                        | -        |              | 88<br>89 | +       | +-         | H                  | +            | $\dashv$     |     | {        |                | 138<br>139 | H               | +            | +       | ┼  | Н        | $\vdash$        | +-      | 1   |  |
|   |            | 40       | $\vdash$     | -        | +      | ╁        | $\vdash$        | $\dashv$  | +                        | $\dashv$ |              | 90       | ╅       | ╁          | H                  | $\dashv$     | $\dashv$     | +   | <b> </b> |                | 140        | H               | 十            | +       | +-   | H        | H               | +-      |     |  |
|   | <u> </u>   | 41       |              |          |        | 1-       | $\Box$          | $\dashv$  | $\top$                   | _        |              | 91       | 士       |            |                    | $\perp$      |              |     | ן נ      |                | 141        |                 | $\perp$      |         |  |          |                 |         | ]   |  |
| Δ |            | 42       |              |          |        | $\top$   | П               | $\Box$    | $\Box$                   | 7        |              | 92       | 1       | $\perp$    | П                  | 4            | 1            |     | }        |                | 142        | $\sqcup$        | 4            | $\bot$  | -  | -        | $\vdash$        | +       |     |  |
|   |            | 44       | -            | $\dashv$ | +      | +        | $\vdash$        | -         | $\dashv$                 | $\dashv$ |              | 93<br>94 | +       | +          | $\vdash \vdash$    | +            | +            |     | ┨┠       |                | 143<br>144 | $\vdash \vdash$ | +            | +       | ╁╌   | Н        | ┝┼              | +       | 1   |  |
|   |            | 45       |              |          | +      | +        |                 |           |                          | -        |              | 95       | +       | 1          |                    | +            | +            |     | 1 1      |                | 145        |                 | +            | +       |  |          | 1               | 16      |     |  |
|   |            | 46       |              |          |        |          |                 |           |                          |          |              | 96       |         | I          |                    | ユ            |              |     |          |                | 146        |                 |              | $\perp$ |  |          | П               | $\perp$ |     |  |
|   |            | 47       | $\Box$       | Ц        | $\bot$ |          | П               | コ         | T                        | 4        |              | 97       | $\perp$ | 1          | $\prod$            | $\dashv$     | 4            |     | 1        |                | 147        | $\prod$         | $\perp$      | +       | $\vdash$   | $\vdash$ | $\vdash \vdash$ | +       | 3 0 |  |
|   | -          | 48       | $\vdash$     | $\vdash$ | +      | +        | $\vdash \vdash$ | 4         | +                        | $\dashv$ |              | 98<br>99 | +       | +          | $\vdash$           | +            | $\dashv$     | ++  |          | -              | 148<br>149 | $\vdash \vdash$ | +            | +       | +  | $\vdash$ | $\vdash \vdash$ | +       |     |  |
|   |            | 50       | $\vdash$     | $\vdash$ | +      | +        | ${}^{\dag}$     | ┪         | +                        | ┪        | <b>—</b>     | 100      | +       | +          |                    | _            | _†           |     | jt       |                | 150        | ⊟               |              | ╛       |  |          |                 |         | ]   |  |
|   |            |          | -            | _        | _      |          | _               |           |                          |          |              |          |         |            |                    | _            | _            |     |          |                | _          |                 |              |         |  |          |                 |         | _   |  |

Application/Control No.

Index of Claims

Applicant(s)/Patent under Reexamination